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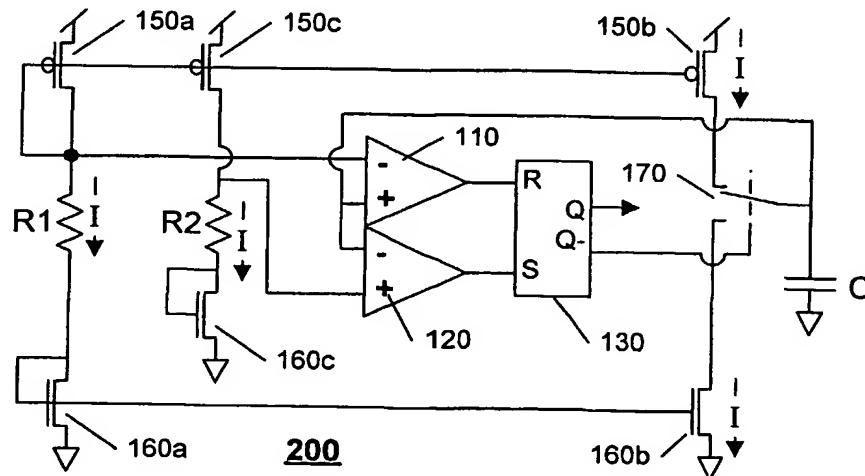
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[Continued on next page]

(54) Title: TEMPERATURE COMPENSATED R-C OSCILLATOR



(57) Abstract: An R-C oscillator (200) is configured to vary the two voltage levels that are used to control the oscillation, such that the variation in oscillation frequency with temperature is minimized. A first resistor (R1) is used to control one of the voltage levels, and a second resistor (R2) having a temperature coefficient that differs from the temperature coefficient of the first transistor is used to control the other voltage level. The first resistor (R1) also controls the current used to charge and discharge the capacitor (C) used to effect the oscillation. By the appropriate choice of resistance values, the variations of the control voltages and current are such that the time to charge and discharge the capacitor (C) between the control voltages remains substantially constant with temperature. Preferably the resistance values are selected to also compensate for temperature variations in the delay of the feedback loop.



TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 6 300 843 B1 (KODAMA HIDETAKA) 9 October 2001 (2001-10-09) column 2, line 64 - column 7, line 49; figures 1,2	1, 9
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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